

## WMQ51 MQSeries System Administration Fast Track – z/OS

**Course description** This course provides an *intensive IBM MQ fast-track*, intended for personnel who will be responsible for installing, operating, administering and supporting *IBM MQ* systems and applications relating to those systems on z/OS platforms. The course has major hands on content.

**Who Should Attend** Technical personnel such as systems programmers, operations analysts, system administrators and anyone else who may be responsible for providing day-to-day support of IBM MQ For z/OS.

**Pre-Requisites** A familiarity with MQSeries, such a that gained by attending WMQ01 or a similar is advised but is not essential.

**Duration** 5 Days

### MQSeries Review

Pgm-to-pgm comms  
The synchronous model  
The asynchronous model  
Distributed systems  
The MQI  
Assured msg delivery  
Time independence  
Parallel processing  
Program independence  
Network “*decoupling*”  
Queue managers  
Queues  
Messages  
Operating platforms  
Supported languages

### Installation & Configuration

The Install Process  
OS/390 / MQ  
Integration  
Defining Page Datasets  
Defining The BSDS(s)  
Defining The Log(s)  
Verifying Installation

### Single System Administration

Queue types  
Local queues  
Alias queues  
Model queues  
Dynamic queues  
Message types  
Message structure  
Message persistence  
  
Msg/Correl id's  
Message priority  
Message delivery seq.

### The MQI & Triggering

MQCONN  
MQCONNX  
MQDISC /  
MQOPEN /  
MQCLOSE  
MQPUT  
MQGET  
MQGET1  
MQBEGIN  
MQBACK / MQCMIT  
MQINQ / MQSET  
Triggering overview  
Trigger parameters  
Trigger events  
The initiation queue  
The trigger message  
Trigger monitors

### Intercommunication

DQM components  
Queues Remotes  
Transmission queues  
Queue name resolution  
Dead letter queue  
Channels / types  
Channel parameters  
Assured msg delivery  
Start / Stop channels  
Synchronising channels  
CHINNT as  
Listeners  
Multi hopping  
Queue mgr aliases  
Reply-to-aliases  
  
Multiple pathways  
Data conversion  
Clusters  
Cluster objects  
Cluster channels  
Repositories  
Workload balancing  
Queue replication  
Dynamic channels  
Resetting the cluster  
Resume / Suspend

### Integrity, Restart & Recovery

Message persistence  
The MQ Log  
Log archives  
The BSDS  
The CSQZPARM module  
QMGR restart processing  
Pageset recovery  
Page LSN reset  
Conditional restart  
Media Failure

### Security

RACF  
Preparing for security  
Enabling Disabling security  
MQ RACF classes  
MQ RACF profiles  
Switch profiles

### Effective Channel Management

Keeping channels up  
Channel health  
Channel states  
Re-synchronising

## **Performance & Tuning**

Types of application  
Message size  
Message persistence  
Logging  
Dynamic queues  
Batch sizes  
Channel parameters  
Triggering

## **Queue Sharing Groups**

Cluster limitations  
The Sysplex environment  
The coupling facility  
CF list structures  
QSG advantages  
QSG limitations

## **Troubleshooting**

QMGR events  
Cannel events  
Performance events  
Dead letter handler  
Troubleshooting channels

## **CICS & IMS Support**

CICS/IMS Adapters  
CICS/IMS Bridges

## **MQSeries Clients**

Why clients  
MQI channels  
System variables